

CLAIMS

1. Rolling device (1) with two work rolls (2), each of which is supported in a rolling stand (4) by a work roll chock (3), such that the work roll chocks (3) can be locked and unlocked in the rolling stand (4) by at least one work roll locking mechanism (5), and with at least two additional rolls (6), especially two backup rolls, each of which is supported in the rolling stand (4) by an additional roll chock (7), wherein both rolls, meaning at least one of the work rolls (2) and at least one of the additional rolls (6) in the rolling stand (4), can be adjusted, especially in the vertical direction, for the purpose of adjusting a desired roll gap relative to the other work roll (2) or relative to the other additional roll (6); wherein the work rolls (2) are provided with axial shifting devices (8) for axial shifting of the work rolls (2), with which the work rolls (2) can be brought into a desired axial position relative to the rolling stand (4) and held there; and wherein the work rolls (2) are operatively connected with bending devices (9), by which a bending moment can act on the work rolls (2), characterized by the fact that the axial shifting devices (8) are arranged or act between the rolling stand (4) and the

work roll locking mechanism (5) and that the bending devices (9) are arranged or act between the work roll chock (3) and the chock (7) of the additional roll (6).

2. Rolling device in accordance with Claim 1, characterized by the fact that the chock (7) of the additional roll (6) has a guide (10), in which the work roll chock (3) is mounted in such a way that it can move relative to the chock (7) of the additional roll (6) and can be locked in place.

3. Rolling device in accordance with Claim 1 or Claim 2, characterized by the fact that the axial shifting devices (8) are rigidly mounted on the rolling stand (4) and have at least one linear guide (11), on which the work roll chock (3) is mounted in such a way that it can move relative to the axial shifting devices 8) in a direction transverse to the direction of axial shift, especially in the vertical direction, and can be locked in place.

4. Rolling device in accordance with any of Claims 1 to 3, characterized by the fact that the work roll chock (3) has two arms (12, 13) that extend on both sides of the axis of the work roll (2), and that each of these arms (12, 13) can be locked with one of the axial shifting devices (8).

5. Rolling device in accordance with Claims 3 and 4, characterized by the fact that the linear guide (11) is rigidly mounted on the axial shifting device (8) and has a lock (14) with a preferably plate-shaped design that can be moved in a direction transverse to the direction of axial shift, especially in the horizontal direction, and that the lock (14), together with the linear guide (11), forms a receiving slot (17) for the end (15, 16) of the arm (12, 13).

6. Rolling device in accordance with Claim 5, characterized by the fact that the lock (14) embraces a shifting sleeve (28).

7. Rolling device in accordance with Claim 5 or Claim 6, characterized by the fact that the lock (14) is connected with operating devices (18), by which it can be positioned in two positions, namely, a locked position and an unlocked position.

8. Rolling device in accordance with Claim 7, characterized by the fact that the operating device (18) consists of two hydraulic piston-cylinder systems (19, 20) per axial shifting device (8), which are arranged parallel to each other and can move the lock (14), such that the piston-cylinder systems (19, 20) act on the lock (14) on the side of the lock (14) that faces away from the work roll chock (3).

9. Rolling device in accordance with any of Claims 1 to 8, characterized by the fact that the axial shifting devices (8) are equipped with anti-twist devices (21), which prevent twisting of the axial ends (22, 23) of the axial shifting devices (8).

10. Rolling device in accordance with any of Claims 1 to 9, characterized by the fact that at least one bending device (9) designed as a hydraulic linear actuator is mounted in a projecting arm (24) of the chock (7) of the additional roll (6) and presses against a laterally projecting bracket (25) of the work roll chock (3).

11. Rolling device in accordance with Claim 10, characterized by the fact that a sliding surface (26) is provided between the bending device (9) and the laterally projecting bracket (25) of the work roll chock (3).